

1 **WHAT IS CLAIMED IS:**

2 1. An early warning braking system for automobiles mainly relies on an
3 electronic detector (30) installable over and above an accelerator pedal (10) or in
4 the vicinity of the accelerator pedal (10) to monitor a driver's foot motion, and
5 the electronic detector (30) is connected to a control circuit that is linked to a
6 pre-braking signal light (50), such that when the driver's foot is withdrawn from
7 the accelerator pedal (10), the electronic detector (30) receives signals of the foot
8 motion, and a control circuit then causes a pre-braking signal light (50) to be
9 turned on for forewarning drivers in following cars of impending braking.

10 2. The early warning braking system as claimed in claim 1, wherein the
11 electronic detector (30) can be installed underneath a dash panel of the car.

12 3. The early warning braking system as claimed in claim 1, wherein the
13 electronic detector (30) can be installed over and above the accelerator pedal
14 (10).

15 4. The early warning braking system as claimed in claim 1, wherein the
16 electronic detector (30) is an infrared sensing means.

17 5. The early warning braking system as claimed in claim 1, wherein the
18 electronic detector (30) is an optical sensing means.

19 6. The early warning braking system as claimed in claim 1, wherein the
20 pre-braking signal light (50) can be installed next to a central brake light (40).

21 7. The early warning braking system as claimed in claim 1, wherein the
22 pre-braking signal light (50) can be installed next to tail-end brake lights (40).

23 8. The early warning braking system as claimed in claim 1, wherein the
24 pre-braking signal light (50) can be combined with a regular braking light (40),

1 by using a twin filament light apparatus, where one filament represents the pre-
2 braking signal light (50) and the other filament represents a regular braking light
3 for dual function display.

4 9. The early warning braking system as claimed in claim 1, wherein the
5 pre-braking signal light (50) can be set up by the control circuit for continuous
6 lighting.

7 10. The early warning braking system as claimed in claim 1, wherein the
8 pre-braking signal light (50) can be set up through the control circuit for flashing
9 mode.

10 11. An early warning braking system for automobiles mainly relies on an
11 electronic detector (30) installable over and above a brake pedal (20) or in the
12 vicinity of the brake pedal (20) to monitor a driver's foot motion, and the
13 electronic detector (30) is connected to a control circuit that is linked to a pre-
14 braking signal light (50), such that when the driver's foot is stepped on the brake
15 pedal (20), the electronic detector (30) picks up signals of foot motion, and the
16 control circuit causes the pre-braking signal light (50) to be turned on for
17 forewarning drivers in following cars of impending braking of the automobile
18 fitted with the early warning braking system.

19 12. The early warning braking system as claimed in claim 11, wherein
20 the electronic detector (30) can be installed, underneath a dash panel of the
21 automobile, or over and above the brake pedal (20) of the automobile.

22 13. The early warning braking system as claimed in claim 11, wherein
23 the electronic detector (30) can be installed on the brake pedal (20).

24 14. The early warning braking system as claimed in claim 11, wherein

1 the electronic detector (30) is an infrared sensing means.

2 15. The early warning braking system as claimed in claim 11, wherein
3 the electronic detector (30) is an optical sensing means.

4 16. The early warning braking system as claimed in claim 11, wherein
5 the pre-braking signal light (50) can be installed next to a central brake light (40).

6 17. The early warning braking system as claimed in claim 11, wherein
7 the pre-braking signal light (50) can be installed next to tail-end brake lights (40).

8 18. The early warning braking system as claimed in claim 11, wherein
9 the pre-braking signal light (50) can be combined with a regular braking light
10 (40), by using a twin filament light apparatus, where one filament represents the
11 pre-braking signal light (50) and the other filament represents a regular braking
12 light for dual function display.

13 19. The early warning braking system as claimed in claim 11, wherein
14 the pre-braking signal light (50) can be set up by the control circuit for
15 continuous lighting.

16 20. The early warning braking system as claimed in claim 11, wherein
17 the pre-braking signal light (50) can be set up through the control circuit for
18 flashing mode.